

$$\frac{-b}{ra} = r \rightarrow ra = -b \quad r(a-1) = -1 \rightarrow ra - r = -1 \quad (1, 5) - 1$$

$$\left(\frac{r}{r} - 1\right)n^r + n + r = y \quad \begin{matrix} ra = r \\ a = \frac{r}{r} \end{matrix}$$

$$-\frac{1}{r}n^r + n + r = y \rightarrow -\frac{1}{r}n^r + n + r = 0$$

$$-n^r + rn + 1r = 0$$

$$n^r - rn - 1r = 0$$

$$(n-4)(n+2) = 0$$

$$\downarrow \quad \downarrow$$

+ طویل ✓ (4) (-2) ✗

$$f(n) = mn^r - an + m$$

$$\begin{matrix} m & n \\ | & | \\ - & + & - \end{matrix}$$

$$\Delta > 0 \checkmark \rightarrow ra(-4)(m)(m) > ra - 4m^r > 0$$

$$m < 0 \checkmark \rightarrow (-\frac{a}{r}, 0)$$

$$-\frac{a}{r} < m < \frac{a}{r} \quad \frac{ra}{r} > m^r$$

$$\frac{ra}{r} > m^r$$

$$\frac{r+\sqrt{a}}{r}, \frac{r-\sqrt{a}}{r}$$

$$S = 5m + P \quad \text{سوال لقمہ باضرب صبح!} \quad (1, 5)$$

$$S = \frac{r+r}{r} = \frac{9}{r} = (r) \quad n^r - 2n + \frac{r}{9}$$

$$P = \frac{9-a}{9} = \left(\frac{r}{9}\right) \quad 4m^r - 18m + r = 0$$

$$2m^r - 18m + m + r = 0$$

$$\alpha < \beta$$

$$r\alpha^r + \beta^r \geq 1r$$

$$S = \alpha + \beta = \frac{-b}{a} = \frac{1}{r} = (r)$$

$$P = \alpha\beta = \frac{c}{a} = \frac{m+r}{r}$$

$$(\alpha + \beta)^r = \alpha^r + \beta^r + r\alpha\beta$$

$$\beta^r = 1r - r\alpha^r$$

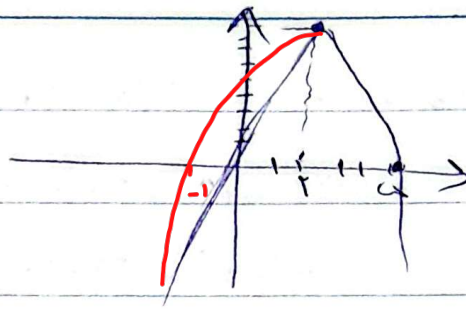
$$19 = \alpha^r + 1r - r\alpha^r + r\left(\frac{m+r}{r}\right) \Rightarrow 19 = -r\alpha^r + 1r + \frac{r(m+r)}{r}$$

$$19 = -r\alpha^r + 1r + m + r$$

$$S(199) \quad / \quad 0$$

$$\frac{-b}{2a} = r$$

$$-b = 2ra$$



$$(1, 5) - a$$

$$\frac{-\Delta}{2a} = 9 \quad 2ac - b^2 = 19a$$

$$20a - 19a^2 = 19a \Rightarrow -19a^2 = 19a \Rightarrow -a = 1$$

$$f(n) = -n^2 + 2n + a$$

$$a = -1, b = 2$$

$$n = a, -1$$

$$-1 \quad \text{بالا}$$

$$(-1, 5) \quad \text{محور}$$

$$an^2 - vn + 9\beta = 0$$

$$\beta > 0$$

$$\alpha < 0$$

$$\frac{1}{\alpha} + \frac{1}{\beta} = \left(\frac{S}{P} \right)$$

$$S = \frac{V}{\alpha} \quad P = \frac{9\beta}{\alpha}$$

$$\frac{V}{\frac{9\beta}{\alpha}} = \frac{V}{9\beta} = \frac{1}{9}$$

$$\alpha^2 - V\alpha - \frac{11}{\alpha} = 0 \Rightarrow \alpha^3 - V\alpha^2 - 11 = 0 \Rightarrow t^3 - Vt - 11 = 0$$

$$(t-9)(t+2)$$

$$\alpha = 9 \quad -2$$

$$n^2 + mn - 2m = 0$$

$$\alpha^2 - m\beta = 1$$

$$-1 + \sqrt{5} - 1 - \sqrt{5} = -2$$

$$\alpha^2 + m\alpha - 2m = 0$$

$$m = 2 \rightarrow n^2 + 2n - 4 = 0$$

$$\alpha^2 - m\alpha + 2m$$

$$\frac{-2 \pm \sqrt{20}}{2} = -1 \pm \sqrt{5}$$

$$-m\alpha + 2m - m\beta = 1$$

$$m = -2 \rightarrow n^2 - 2n + 4 = 0$$

$$-m(\alpha + \beta) + 2m = 1$$

$$\Delta < 0 \rightarrow \text{X}$$

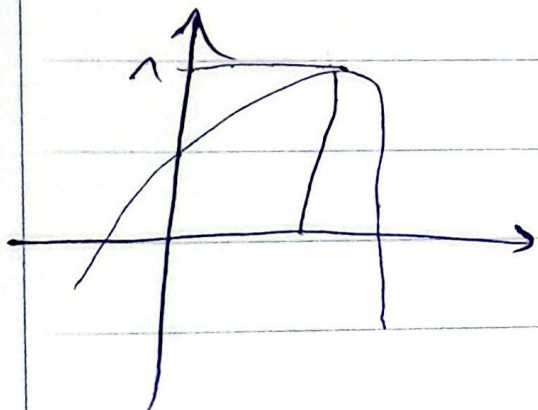
$$-m(-m) + 2m = 1 \rightarrow m^2 + 2m = 1$$

$$m^2 + 2m - 1 = 0 \rightarrow (m+2)/(m-1)$$

$$\text{محل } 0 \leftarrow \text{X} \leftarrow (-5) \leftarrow 2$$

$$f(m) = mn^r + rm + \frac{m}{r} + v$$

(r) - 1



$$\frac{-\Delta}{ca} = 1 \quad rac - b^r = rra$$

$$rm^r - fm - 14 = 0$$

$$m^r - rm - 1 = 0 \rightarrow (m-r) \mid (m+r)$$

$$a < 0 \rightarrow \text{gini } m$$

$$f(m) = -rm^r + fm + 9 \rightarrow \boxed{m=r=15}$$

$$m=1$$

$$\frac{1}{\alpha} + \frac{1}{\beta} = \frac{5}{13}$$

$$5 = \frac{c}{1^2} = -\frac{1}{\alpha}$$

$$\frac{c}{-\alpha} = -\frac{1}{r}$$

(r) - 9

$$\frac{rac - b^r}{ca} = 9$$

$$\rightarrow rac - b^r = rra \quad -rb - b^r = 9b =$$

$$\frac{-b}{ra} = r \Rightarrow -b = ra$$

$$rb = b^r$$

$$f(m) = -\frac{1}{r}m^r + rm + r$$

$$b = r$$

$$a = -\frac{1}{r}$$

$$c = r$$

$$m^r - (ca + c)m + (ra^r + 9a + r) = 0$$

(r) - 10

$$r = 1a = 1 + ra^r + 9a + r = 0$$

$$ra^r - ra - 1 = 0 \rightarrow a = 1 \rightarrow m^r - 1m + r = 0$$

$$a = -\frac{1}{r} \Rightarrow m^r - \frac{1}{r}m^{\frac{r}{r}} = 0$$

$$(m - \frac{r}{r})(m - r)$$

$$\boxed{\frac{r}{r}}$$

$$\boxed{r}$$

$$(m-r) \mid m=7=0$$

Elipon

$$r\alpha^r + \alpha^r + r\beta^r - \beta^r = 12 \rightarrow r(\alpha^r + \beta^r) + \alpha^r - \beta^r = 12$$

(1)

$$\frac{B > \alpha}{\alpha - \beta < 0} \rightarrow r(S^r - r\rho) + (S) \left(\frac{-\sqrt{\Delta}}{|\alpha|} \right) = 12$$

$$\frac{S = r}{\rho = \frac{m+r}{r}} \rightarrow r(14 - m - r) - r \left(\frac{\sqrt{r^2 - 4m}}{r} \right) = r^2 - rm - \sqrt{r^2 - 4m} = 12$$

$$14 - rm = \sqrt{r^2 - 4m} \rightarrow m = r$$

$$\rho = \alpha\beta = \frac{9\beta}{\alpha} \rightarrow \alpha = \mp 3$$

$$S = \alpha + \beta = \frac{V}{\alpha} \rightarrow \begin{cases} \alpha = 3 \rightarrow \beta = -\frac{r}{3} \times \\ \alpha = -3 \rightarrow \beta = \frac{r}{3} \checkmark \end{cases}$$

طبق گفته صورت سوال

(4)

$$\frac{1}{\alpha} + \frac{1}{\beta} = \frac{-1}{3} + \frac{r}{3} = \frac{V}{4}$$